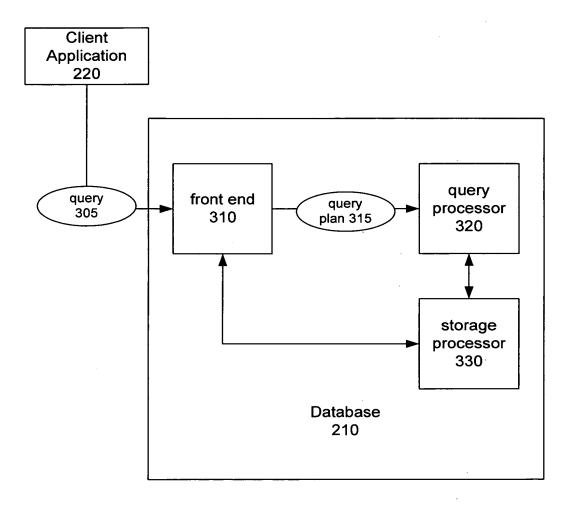
Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned
Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 1 of 15
Phone: (215) 568-3100

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Fig. 1



(Prior Art)

Docket No.: MSFT-2930/304868.01

App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP

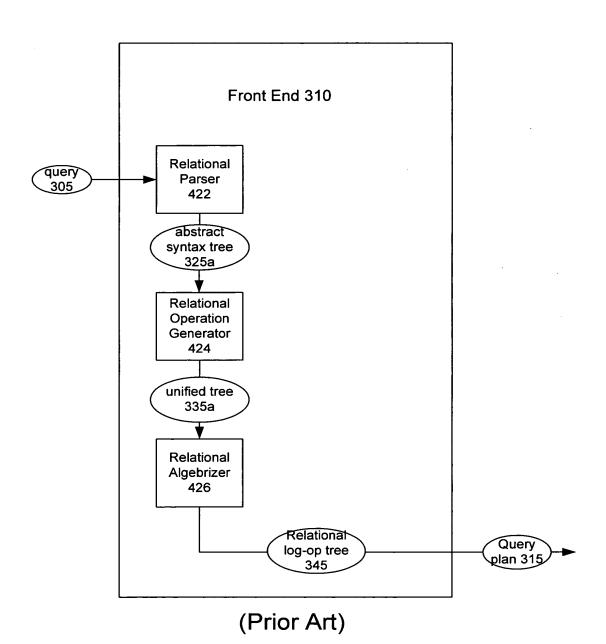
LANGUAGE BASED QUERY Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,

Denis Churin and Peter Kukol Attorney: Kenneth R. Eiferman Sheet 2 of 15

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Fig. 2



Docket No.: MSFT-2930/304868.01

App No.: Not yet Assigned Filed: Herewith

Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP

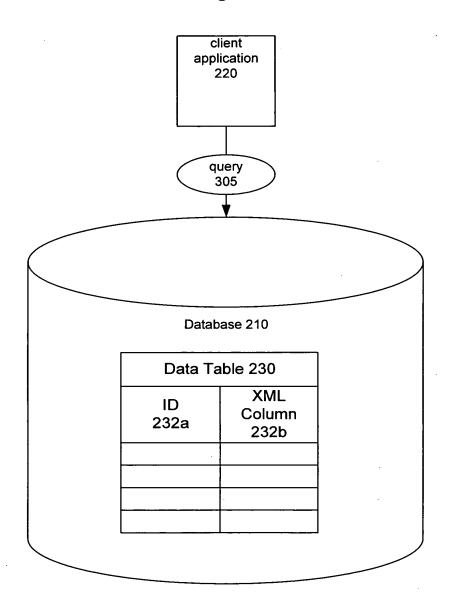
LANGUAGE BASED QUERY

Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman

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Fig. 3



Docket No.: MSFT-2930/304868.01
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Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 4 of 15
Phone: (215) 568-3100

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Fig. 4

```
CREATE XML SCHEMA COLLECTION xs people AS
'<schema xmlns="http://www.w3.org/2001/XMLSchema"</pre>
     targetNamespace="people-uri"
     xmlns:p="people-uri">
     <element name="person" maxOccurs="unbounded">
          <complexType>
               <sequence>
                   <element ref="p:name" />
                    <element ref="p:emailaddress" />
                    <element ref="p:phone" minOccurs="0" maxOccurs="1" />
                   <element ref="p:address" minOccurs="0" maxOccurs="1" />
<element ref="p:homepage" minOccurs="0" maxOccurs="1" />
                   <element ref="p:creditcard" minOccurs="0" maxOccurs="1" />
                   <element ref="p:profile" minOccurs="0" maxOccurs="1" />
               </sequence>
               <attribute name="id" type="string" use="required" />
          </complexType>
     </element>
     <element name="name" type="string"/>
    <element name="emailaddress" type="anyURI" />
<element name="phone" type="string" />
<element name="address">
          <complexType>
               <sequence>
                    <element ref="p:street" />
                    <element ref="p:city" />
                   <element ref="p:country" />
                   <element ref="p:province" minOccurs="0" maxOccurs="1" />
                   <element ref="p:zipcode" />
               </sequence>
          </complexType>
     </element>
     <element name="street" type="string" />
<element name="city" type="normalizedString" />
    <element name="province" type="string" />
<element name="zipcode" type="string" />
    <element name="country" type="normalizedString" />
<element name="homepage" type="anyURI" />
<element name="creditcard" type="string" />
     <element name="profile">
          <complexType>
               <sequence>
                    <element ref="p:interest" minOccurs="0"</pre>
maxOccurs="unbounded" />
                   <element ref="p:education" minOccurs="0" maxOccurs="1" />
                   <element ref="p:gender" minOccurs="0" maxOccurs="1" />
                    <element ref="p:business" />
                   <element ref="p:age" minOccurs="0" maxOccurs="1" />
               </sequence>
               <attribute name="income" type="decimal" use="optional" />
          </complexType>
     </element>
     <element name="interest">
          <complexType>
              <attribute name="category" type="string" use="required" />
          </complexType>
     </element>
     <element name="education" type="normalizedString" />
     <element name="income" type="decimal" />
    <element name="gender" type="token" />
<element name="business" type="string" />
<element name="age" type="short" />
</schema>
```

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App No.: Not yet Assigned Filed: Herewith

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LANGUAGE BASED QUERY

Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <homepage>http://www.rwth-aachen.de/~Juric</homepage>
<creditcard>7833 6950 5399 8913</creditcard>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <emailaddress>mailto:Unni@llnl.gov</emailaddress>
                                                                                                                                                                                                                              <emailaddress>mailto:Demke@uu.se</emailaddress>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <creditcard>8182 1228 4493 3873</creditcard>
cprofile income="55386.86">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <education>High School</education>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <city>Athens</city>
<country>United States</country>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <country>United States</country>
                                                                        <person xmlns="people-uri" id="person0">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <person xmlns="people-uri" id="person1">
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                                                                                                                                                                                                                                                                                                                                                                                    <street>95 Grinter St</street>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cprovince>Vermont/province>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <phone>+55 (692) 72096539</phone>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <street>5 Pinet St</street>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <phone>+59 (866) 983647</phone>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <br/>

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <gender>male</gender>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <zipcode>13</zipcode>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <zipcode>32</zipcode>
insert into people values(1'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    insert into people values (2'
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                                                                                                                                                      <name>Huei Demke</name>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <city>Macon</city>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <age>37</age>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </address>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          </person>')
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```

Docket No.: MSFT-2930/304868.01

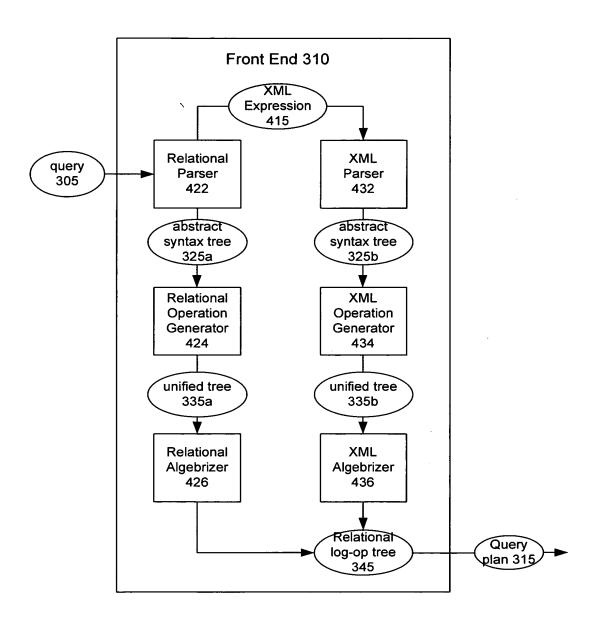
App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Sheet 6 of 15

Phone: (215) 568-3100

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Fig. 6



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[path=child::'{"people-[path=child::'{"people-uri"}p:name'child::'{"people-uri"}p:person'] [path=child::'{"people-[path=child::'{"people-[path=child::'{"peopleuri"}p:age'child::'{"people-uri"}p:profile'child::'{"people-uri"}p:person'] '{"people-uri"}p:age [path=child::'{"people-[path=child::'{"people-uri"}p:age'child::'{"people-uri"}p:profile'child::'{"people-uri"}p [type=element(p{people-uri}:age,xs:short) ?] var [type=element(p{people-uri}:person)] ۲. [type=element(p(people-uri):profile) var [type=element(p{people-uri}:person)] TEMP<1> / [type=element(p{people-uri}:person) *] * uri"}p:profile'child::'{"people-uri"}p:person'] '{"people-uri"}p:profile' / [type=element(p{people-uri}:name,xs:string) [path=child::'{"people-uri"}p:profile'child::'{"people-uri"}p:person'] pred-ctx [type=element(p{people-uri}):person) *] value='21 <cur.root> [type=document {...}] data() [type=xs:short?] coerce [type=xs:integer ?] > [type=xs:boolean ?] deccon [type=Integer] name [path=child::'{"people-uri"}p:person'] TEMP<1> uri"}p:name'child::'{"people-uri"}p:person'] [1E5A37EC] [1E5A3884] [1E5A3914] [1E5A38B4] 1E5A38E4] name [1E5A059C] [1E5A05F4] [1E5A375C] [1E5A3974] [1E5A378C] '{"people-uri"}p:name' [1E5A3944] [1E5A372C] [1E5A39E4] [1E5A3AE4] [1E5A3A44] uri"}p:person'] uri"}p:person'] uri"}p:person' [1E5A3A74] [1E5A3B14] :person'l

Fig. 7

325b

Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned Filed: Herewith
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LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

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Fig. 8

335b

```
<XmlOp_Apply VarName="#3" Simple="Yes" >
   <XmlOp_Select VarName="%1" >
      <XmlOp_Path Path="/Child:Element(people-uri:person)" >
       </XmlOp Path>
       <ml><mlOp_Compare Operator=">" > ^
          <XmlOp_Coerce Simple="Yes" >
             <XmlOp Accessor Type="Value" >
                <XmlOp Path Path="/Child:Element(people-</pre>
uri:profile)/Child:Element(people-uri:age) " Context="%1"
ContextPath="/Child:Element(people-uri:person)" >
             </XmlOp_Path>
</XmlOp_Accessor>
          </XmlOp_Coerce>
          <XmlOp Constant Value="numeric,Not</pre>
Owned, Value=(len, prec, scale)=(9,38,10)" > 
</XmlOp_Constant>
      </XmlOp_Compare>
   </XmlOp Select>
   <XmlOp Path Path="/Child:Element(people-uri:name)" Context="#3"</pre>
ContextPath="/Child:Element(people-uri:person)" >
   </XmlOp Path>
</XmlOp_Apply>
```

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```
LogOp_Select
LogOp_Get_TBL: xidx_people(alias_TBL: age:2) xidx_people
LogOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Identifier_QCOL: [xmlalgdocidx].[dbo].[people].p_id
ScaOp_Identifier_QCOL: [age:2].pk1
LogOp_Apply (x_jtInner)
LogOp_Apply (x_jtInner)

LogOp_Select
LogOp_Select
LogOp_Comp x cmpEq
ScaOp_Comp x cmpEq
ScaOp_Identifier QCOL: [xmlalgdocidx].[dbo].[people].p_id
LogOp_ConstTableGet (1) [empty]
ScaOp_Comp x cmpEq
ScaOp_Comp x cmpEq
ScaOp_Const acmpEq
ScaOp_Const acmpEq
ScaOp_Const acmpEq
ScaOp_Const acmpEq
ScaOp_Identifier QCOL: [person:1].hid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Logup Constranterer (1) temper;

ScaOp Comp x cmpEq
ScaOp Const
ScaOp Const
ScaOp Comp x cmpEq
ScaOp Logical x lopAnd
ScaOp Identifier QCOL: [person:1].id
ScaOp Intrinsic getancestor
ScaOp Identifier QCOL: [age:2].id
ScaOp Const
ScaOp Const
ScaOp Const
ScaOp Identifier QCOL: [person:1].id
ScaOp Comp x cmpLe
ScaOp Identifier QCOL: [age:2].id
ScaOp Identifier QCOL: [age:2].id
ScaOp Identifier QCOL: [age:2].id
ScaOp Intrinsic getdescendantlimit
ScaOp Intrinsic getdescendantlimit
ScaOp Identifier QCOL: [person:1].id
                                                                                                                                                                                                                                                                                                                                                                                                                                                      LogOp_Select /* p:person/p:profile/p:age */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LogOp_Join
                                                                                                                                                                                                                                                                                                                                               Jp_ExistingOp_Join
LogOp_Select
LogOp_Project
LogOp_Project
TogOp_Sele
```

ScaOp Identifier QCOL: [age:2].id

Docket No.: MSFT-2930/304868.01

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Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman

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```
Logop_Select
Logop_Get TBL: xidx_people(alias TBL: name:3) xidx_people
Logop_Get TBL: xidx_people(alias TBL: name:3) xidx_people
ScaOp_Comp x_cmpEq
ScaOp_Identifier QCOL: [xmlalgdocidx].[dbo].[people].p_id
ScaOp_Identifier QCOL: [name:3].pk1
                                                                                                                                                                                                                     345
                                        Scaop Identifier QCOL: [age:2].value
Scaop Identifier QCOL: [age:2].value
Scaop ConstTableGet (1) [empty]
AncOp PriList
AncOp PriList
Scaop Const
Scaop Const
Scaop Const
Scaop Identifier QCOL: [age:2].value
Scaop Convert sql variant,Null,Var,ML=8016
Scaop Identifier COL: Expr1007
LogOp_Select /* p:person/p:name */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ScaOp_Identifier_QCOL: [person:1].id
ScaOp_Identifier_QCOL: [name:3].id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Logop_ConstTableGet (1) [empty]
ScaOp_Comp x_cmpEq
ScaOp_Comst
ScaOp_Const
ScaOp_Const
ScaOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Intrinsic getancestor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Scaop_Identifier QCOL: [name:3].id
Scaop_Const
Scaop_Const
Scaop_Identifier QCOL: [person:1].id
Scaop_Identifier QCOL: [name:3].id
Scaop_Comp x cmpGt
Scaop_Intrinsic getdescendantlimit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ancop PrjEl COL: Expr1010
ScaOp Intrinsic manufactureconstructordpath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ScaOp_Const
ScaOp_Identifier QCOL: [name:3].id
ScaOp_Const
                           ScaOp Comp x cmpIsNot
                                                                                                                                                                                                                                                                                                                                                                   LogOp Join
AncOp_PrjList
```

Docket No.: MSFT-2930/304868.01

App No.: Not yet Assigned Filed: Herewith

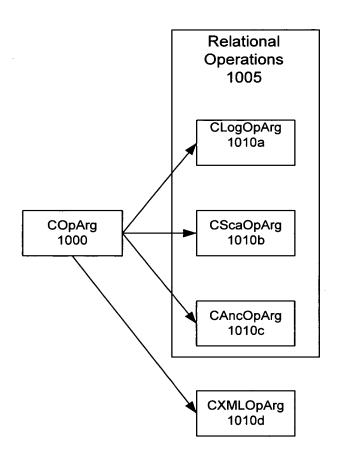
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Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

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Fig. 10

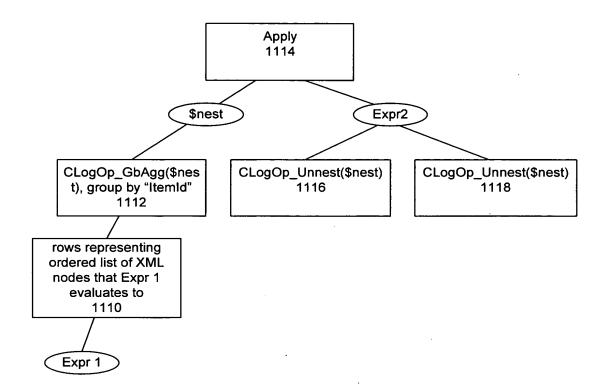


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Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 12 of 15
Phone: (215) 568-3100

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Fig. 11

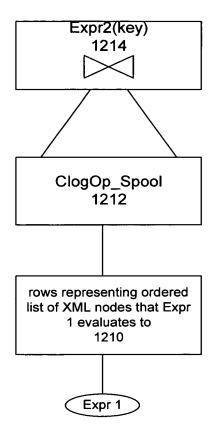


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Attorney: Kenneth R. Eiferman

Phone: (215) 568-3100

Fig. 12



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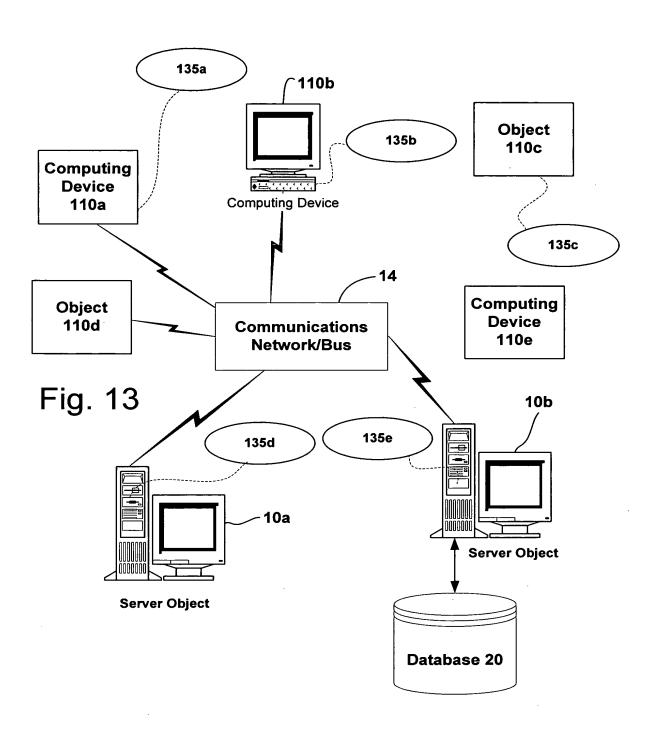
LANGUAGE BASED QUERY

Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,

Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Sheet 14 of 15

Phone: (215) 568-3100



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